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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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STAAS & HALSEY LLP SUITE 700			HALEY, JOSEPH R	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		•	ART UNIT	PAPER NUMBER
	,	2627		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
Office Action Summary		10/724,138	PARK, JONG-NAM
		Examiner	Art Unit
		Joseph Haley	2627
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address
A SHO WHIC - Exten after s - If NO - Failur Any ro	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>28 No</u> This action is FINAL . 2b) This Since this application is in condition for allowan	action is non-final.	esecution as to the merits is
	closed in accordance with the practice under $oldsymbol{\it E}$	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.
Disposition	on of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1,3-7 and 11 is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1, 3-7 and 11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
Application	on Papers		
10) 🔲 🗆	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment	• •	4) Interview Summary	(PTO 413)
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-7, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita (US 6577566).

In regard to claim 1, the applicant's admitted prior art teaches a method of automatically pausing an optical pickup in a DVD-RAM disc drive (fig. 1), the method comprising: generating a jump signal in response to a state of the land/groove signal varying; and moving the optical pickup back by 1/2 of a track in response to the jump signal (see paragraph 8 lines 1-5) but does not teach determining whether a tracking error signal is generated during driving of a disc; wherein the land/groove signal is at a first state when the optical pickup is positioned over the land tracks, the land/groove signal is at a second state when the optical pickup is positioned over the groove tracks, the land/groove signal transits from the first state to the second state or from the second state to the first state, and the optical pickup is positioned over either the land tracks or the groove tracks depending on the state of the land/groove signal; generating a land/groove signal to discern land tracks and groove tracks; determining from which track the tracking error signal has been generated using the generated

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land/groove signal in response to the determination that the tracking error signal has been generated.

Tomita teaches determining whether a tracking error signal is generated (fig. 13B) wherein the land/groove signal is at a first state when the optical pickup is positioned over the land tracks, the land/groove signal is at a second state when the optical pickup is positioned over the groove tracks, the land/groove signal transits from the first state to the second state or from the second state to the first state, and the optical pickup is positioned over either the land tracks or the groove tracks depending on the state of the land/groove signal; generating a land/groove signal to discern land tracks and groove tracks; generating a land/groove signal to discern land tracks and groove tracks (figs. 13 and 14); and determining from which track the tracking error signal has been generated using the generated land/groove signal in response to the determination that the tracking error signal has been generated (see fig. 13C. See also fig. 14D and column 29 lines 38-45).

The two are analogous art because they both deal with the same field of invention of switching from land to groove tracks.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita because using the polarity of a tracking error signal will accurately tell if the laser is on a land or a groove.

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In regard to claim 5, Tomita teaches a microcomputer of the DVD-RAM disc drive receives the land/groove signal and determines from which track the tracking error signal has been generated (see fig. 13).

In regard to claims 6 and 7, Tomita teaches wherein the first state is a high level and the second state is a low level and wherein the first state is a low level and the second state is a high level (see fig. 13C).

In regard to claims 11 and 12, see claim 1 rejection above.

In regard to the microcomputer of claim 12, see fig. 5 element 46.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita further considered with Takahashi et al. (US 2002/0054974).

In regard to claims 3 and 4, the applicant's admitted prior art and Tomita teach recording data in only the land tracks and only the groove tracks (see paragraph 6 of the applicant's admitted prior art) and all the other elements of claims 3 and 4 except inspecting a quality of an RF of data recorded in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks.

Takahashi et al. teaches inspecting a quality of an RF of data recorded in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks (see paragraph 100. Takahashi et al. teaches adjusting the phase separately for the land and groove to improve SNR).

The three are analogous art because they all deal with the same field of invention of recording in optical media.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art in view of Tomita with the separate phase corrections of Takahashi et al. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art in view of Tomita with the separate phase corrections of Takahashi et al. because treating the land and grooves separately improves the quality of the signal.

Response to Arguments

Applicant's arguments filed 11/28/07 have been fully considered but they are not persuasive. Applicant argues on page 5 that Tomita does not teach a land/groove signal. However the examiner maintains this rejection because a land/groove signal is the polarity of the tracking error signal. When Tomita determines the polarity of the tracking error signal, Tomita is determining a land/groove signal. The land/groove signal of Tomita could not be determined if the tracking error signal was not determined.

Tomita does not call this polarity signal a land/groove signal but that does not mean there is no land/groove signal.

On page 5 applicant argues that the applicant's admitted prior art fails to teach generating a jump signal in response to the land/groove signal varying. However, the examiner maintains this rejection because it is taught in paragraph 8 lines 1-5 generating a jump signal when the pickup is automatically paused. However the jump signal could not be generated without the use of a L/G signal.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Haley whose telephone number is 571-272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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